

Title: COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF PROSTATE CANCER

Express Mail # EL897865106US

Inventor(s): Jiangchun Xu et al. Serial No. 09/759,143 Docket No. 210121.427C23

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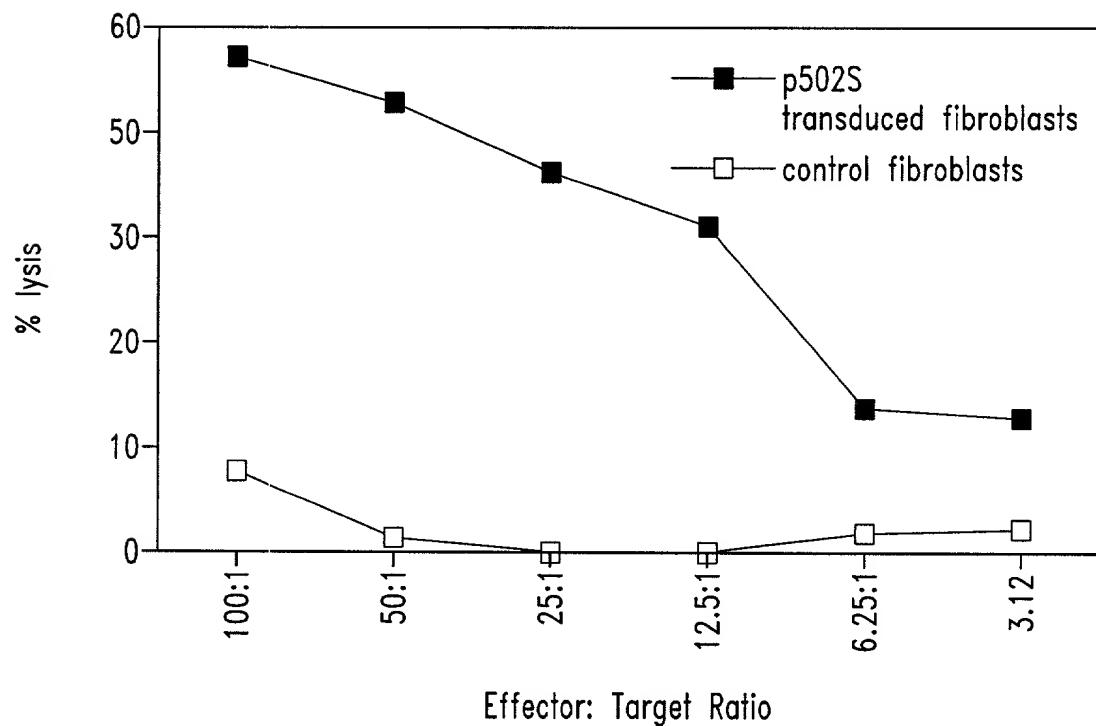


Fig. 1

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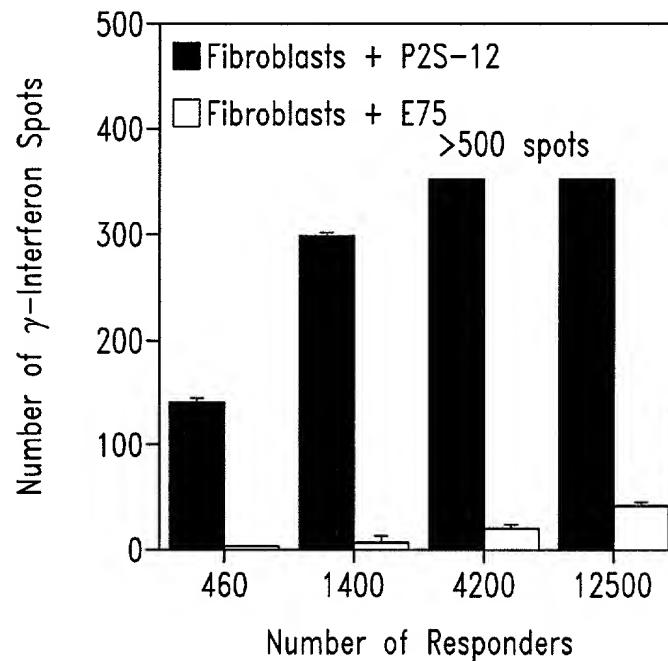


Fig. 2A

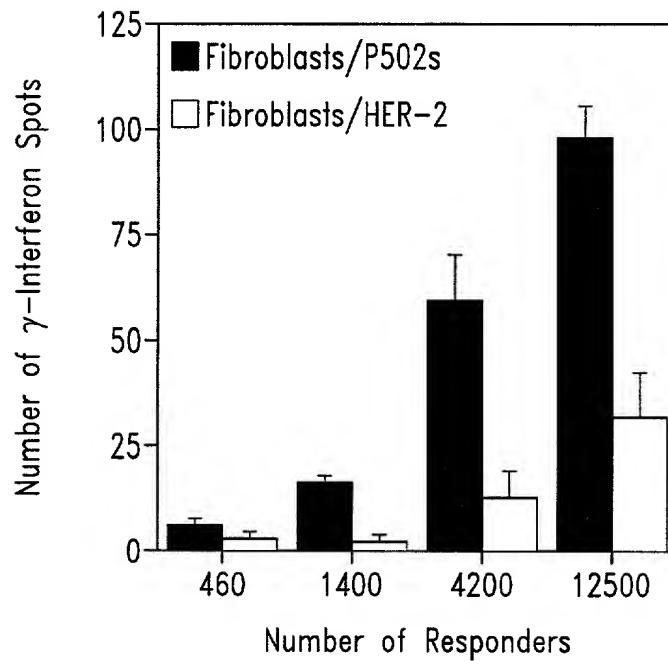


Fig. 2B

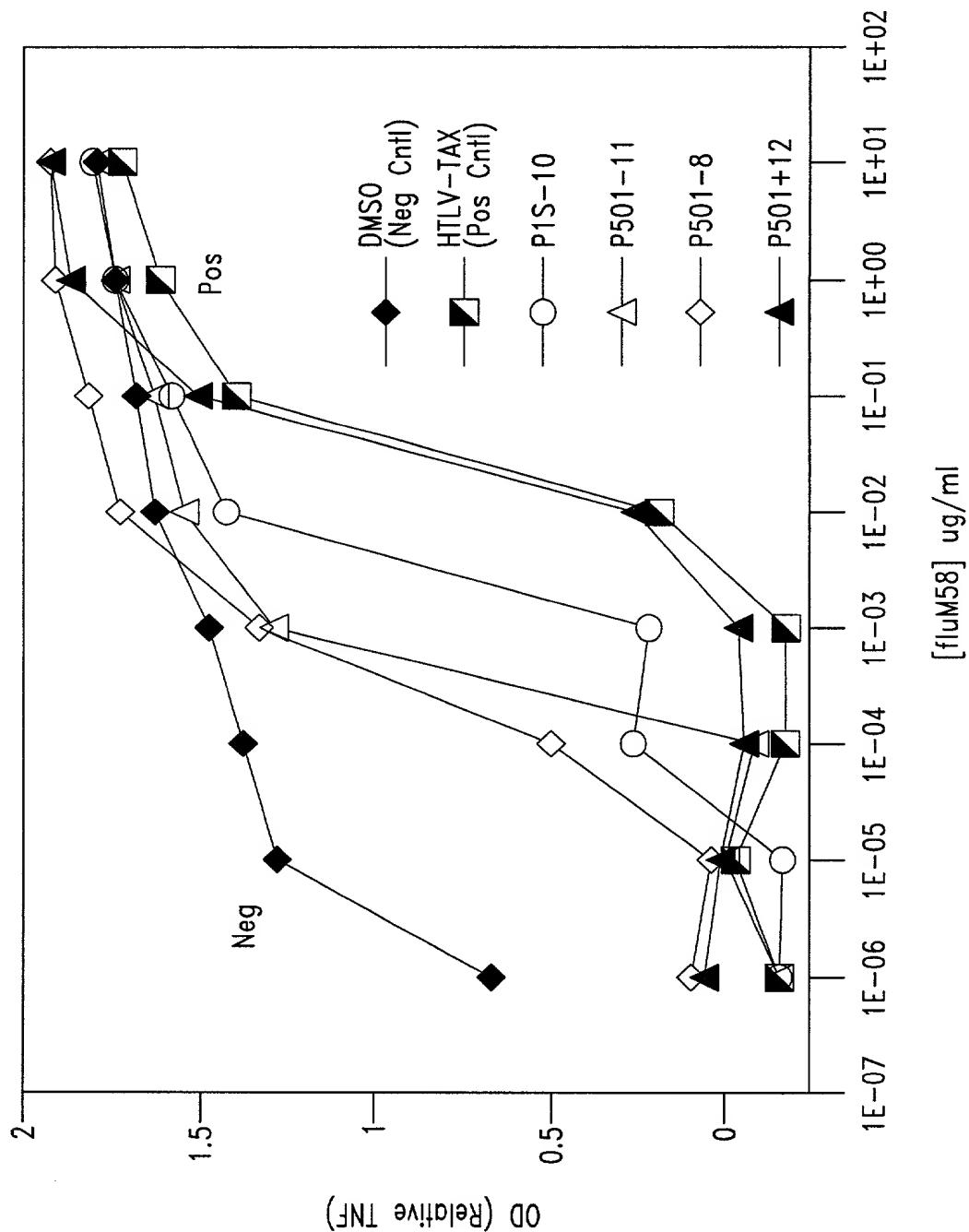


Fig. 3

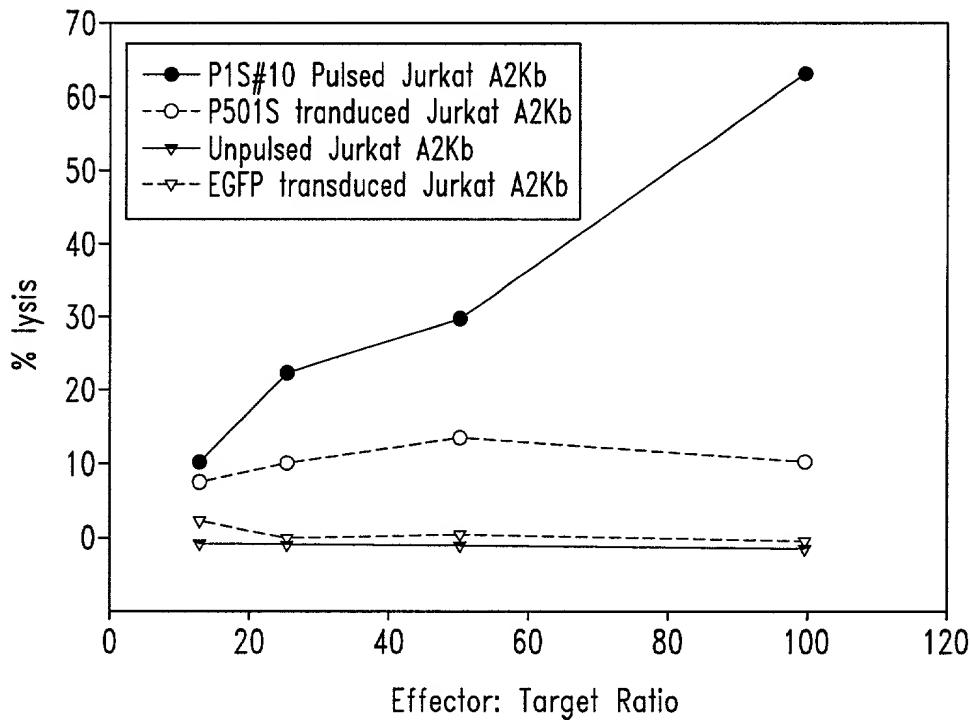


Fig. 4

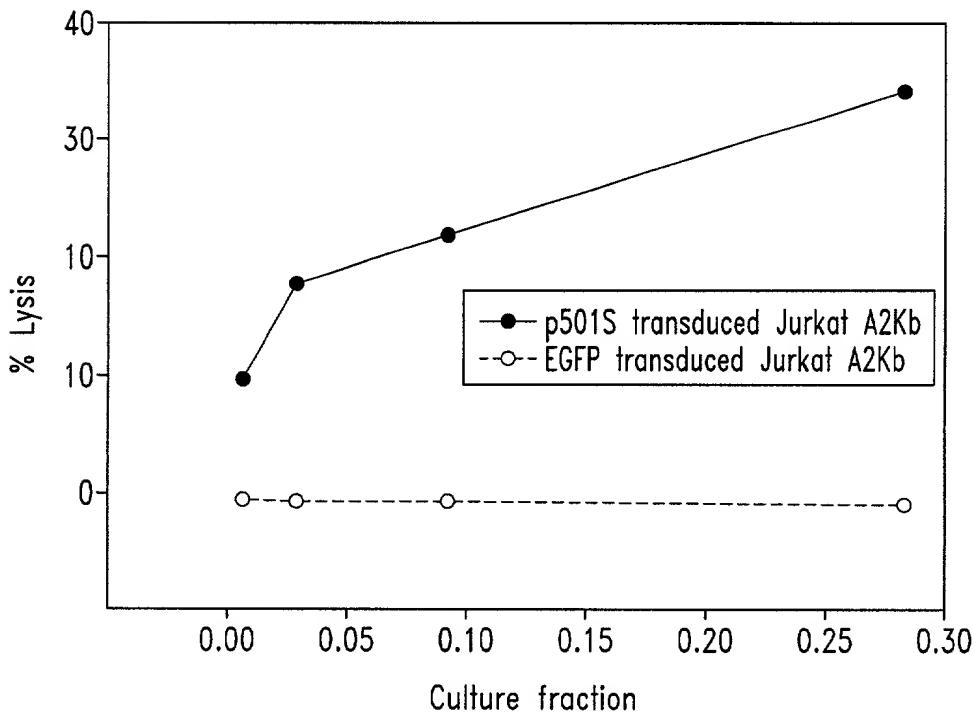


Fig. 5

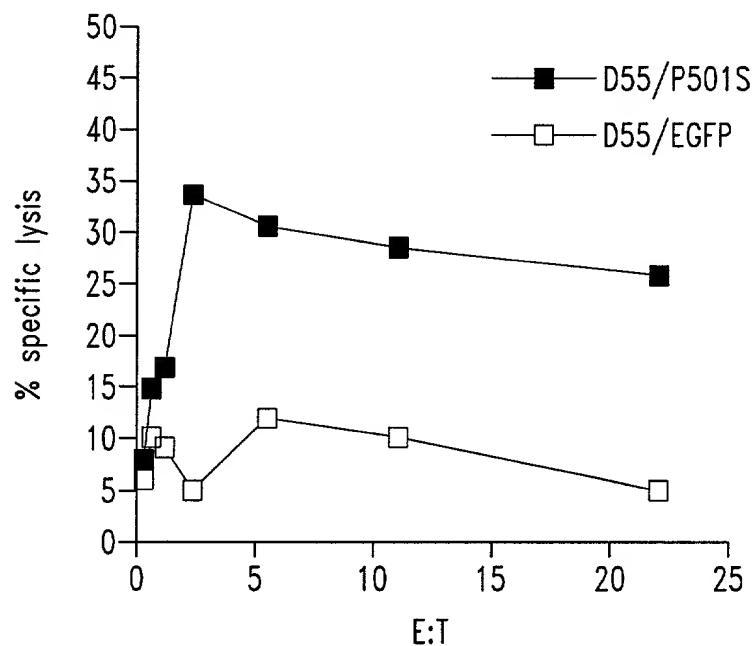


Fig. 6A

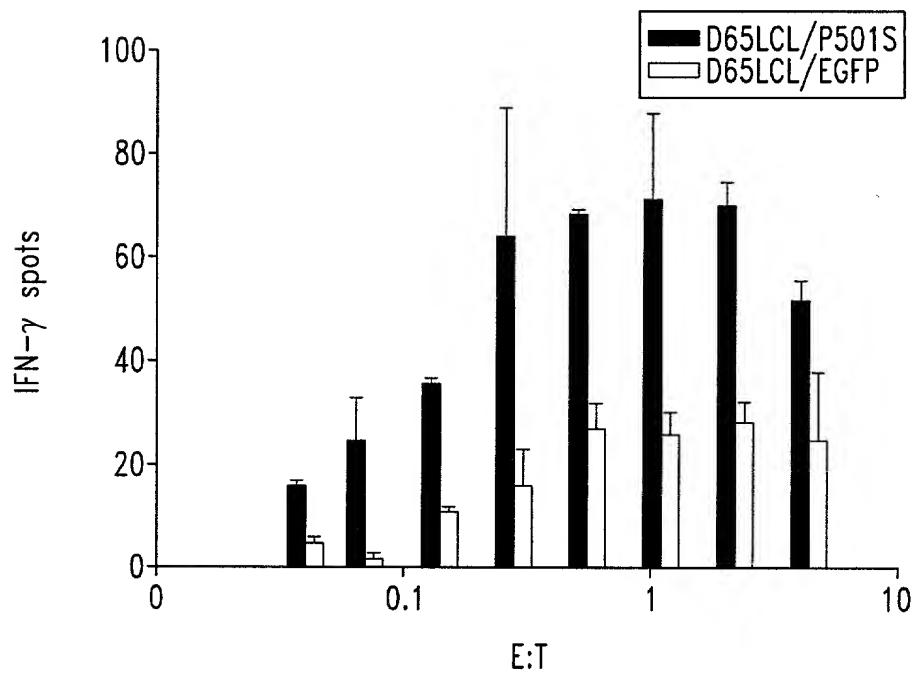
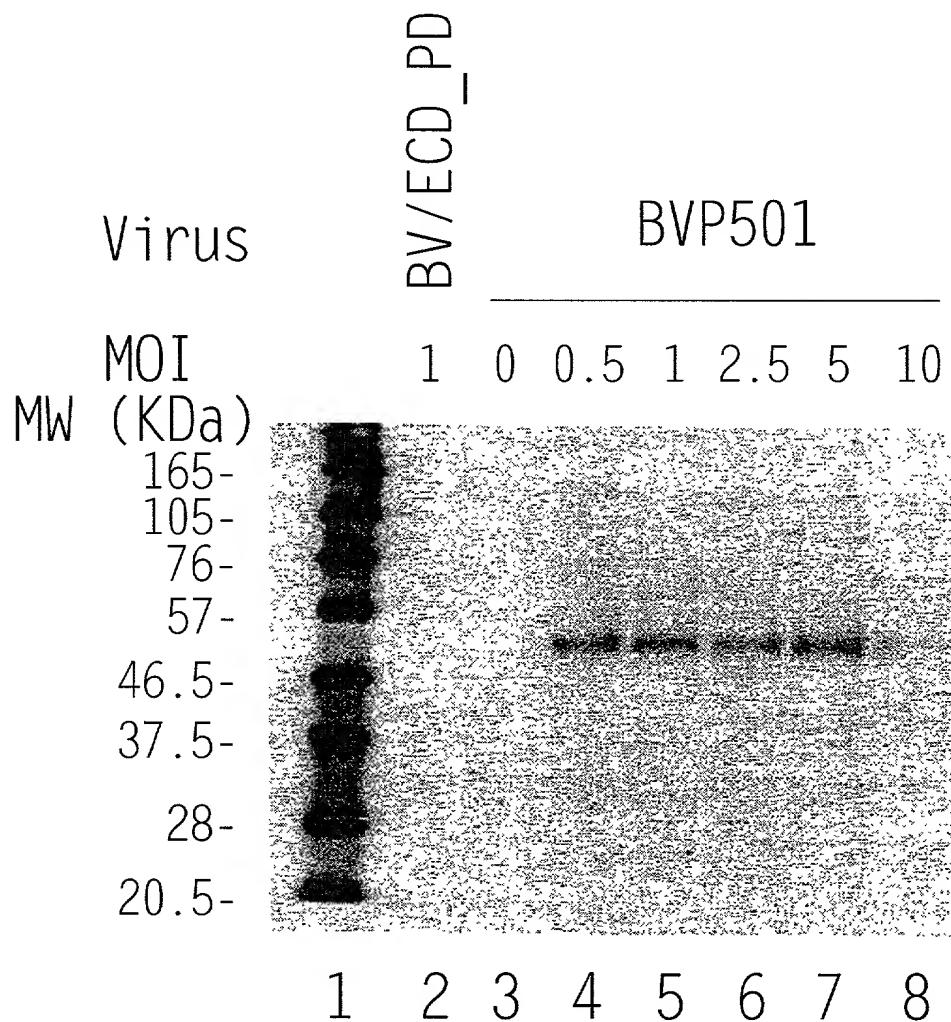


Fig. 6B

Expression of P501S
by the Baculovirus Expression System



C 6 million high 5 cells in 6-well plate were infected with an unrelated control virus BV/ECD_PD (lane2), without virus (lane3), or with recombinant baculovirus for P501 at different MOIs (lane 4-8). Cell lysates were run on SDS-PAGE under the reducing conditions and analyzed by Western blot with a monoclonal antibody against P501S (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (BioLabs).

Fig. 7

FIGURE 8. Mapping of the epitope recognized by
10E3-G4-D3

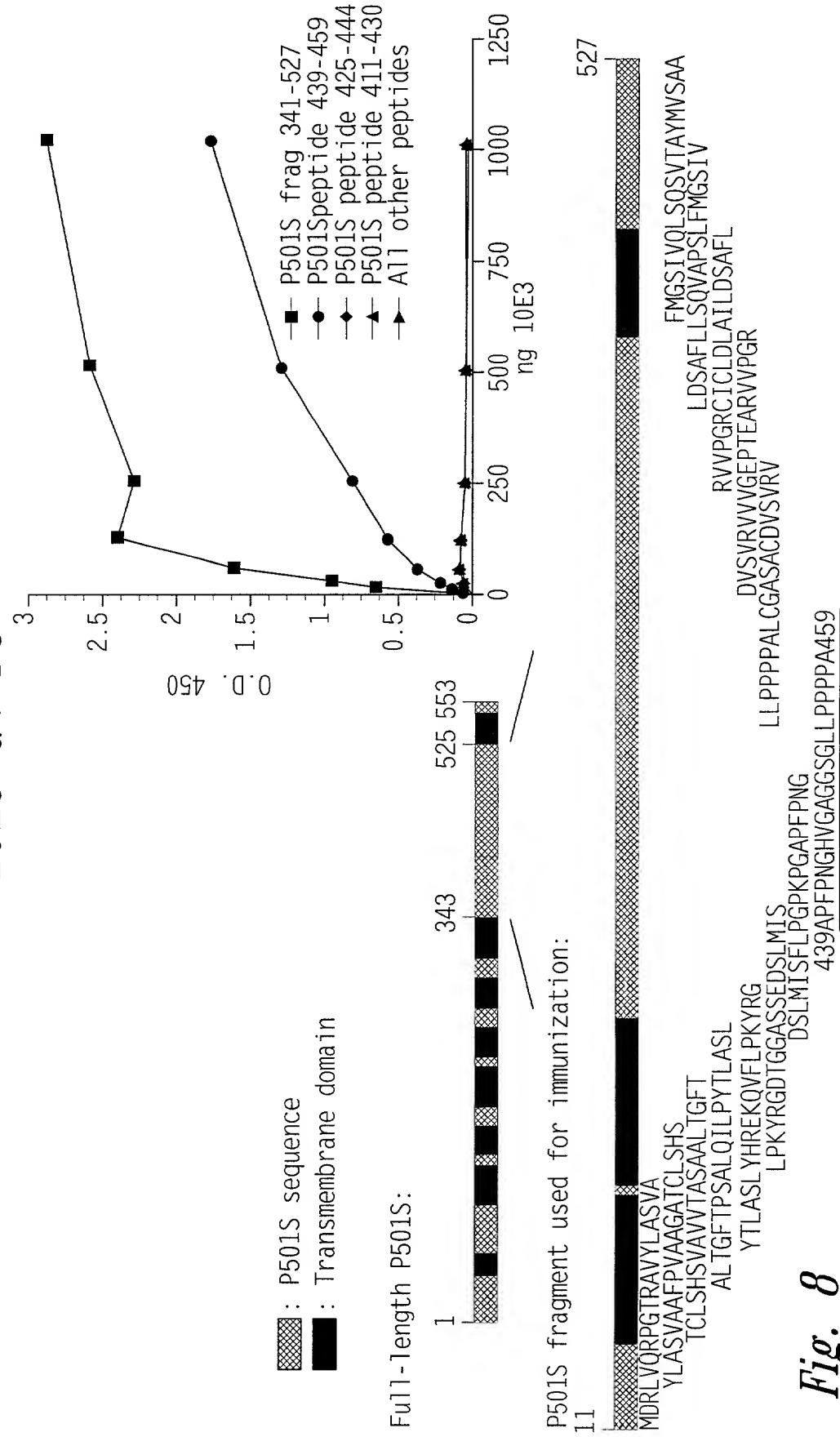


Fig. 8

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Schematic of P501S with predicted
transmembrane, cytoplasmic, and extracellular regions

MVQRlwvsRllRHRK AQLLVNLLTFGLEVCLAAGIT **YVPPLLLEVGVEEKFM**
TMVLGIGPVGLVCYPLLGSAS

DHWRGRYGRRRP FIWALSLGILLSFLIPRAGWL **AGLLCPDPRPLE** LALLILGVGLLDFCGQVCFTPL

EALLSDLFRDPDHCRQ AYSVYAFMISLGGCLGYLLPAI **DWDTSALAPYLGTQEE**

CLFGLLTLIFLTCVAATLLV EEAALGPTEPAEGLSAPSLSPHCCPCRARLAFRNLGALLPRL

HQLCCRMPTLRR LFVAELCSWMALMTFTLFYTDF **VGEGLYQGVPRAEPEGTEARRHYDEGVR**

MGSLGLFLQCAISLVFSLVM DRLVQRFGTRAVYLAS VAAFPVAAGATCLSHSVAVVTA **SAA**

LTGFTFSALQILPYTLASLY HREKQVFLPKYRGDTGGASSED**SLMTSFLPGPKPGAPFPNGHVGAGGSGL**

LPPPPALCGASACDVSVRVVVGEPE**TEARVVPGRG** ICLDLAI**LSAFLLSQVAPSLF** **MGSIVQLSQS**

VTAYMVSAAGLGLVAIYFAT **QVVFDKSDLAKYSA**

Underlined sequence: Predicted transmembrane domain; **Bold sequence**: Predicted extracellular domain; *Italic sequence*: Predicted intracellular domain. Sequence in bold/underlined: used generate polyclonal rabbit serum

Localization of domains predicted using HMMTOP (G.E. Tusnady an I. Simon (1998) Principles Governing Amino Acid Composition of Integral Membrane Proteins: Applications to topology Prediction. *J.Mol Biol.* 283, 489-506.

Fig. 9

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Genomic Map of (5) Corixa Candidate Genes

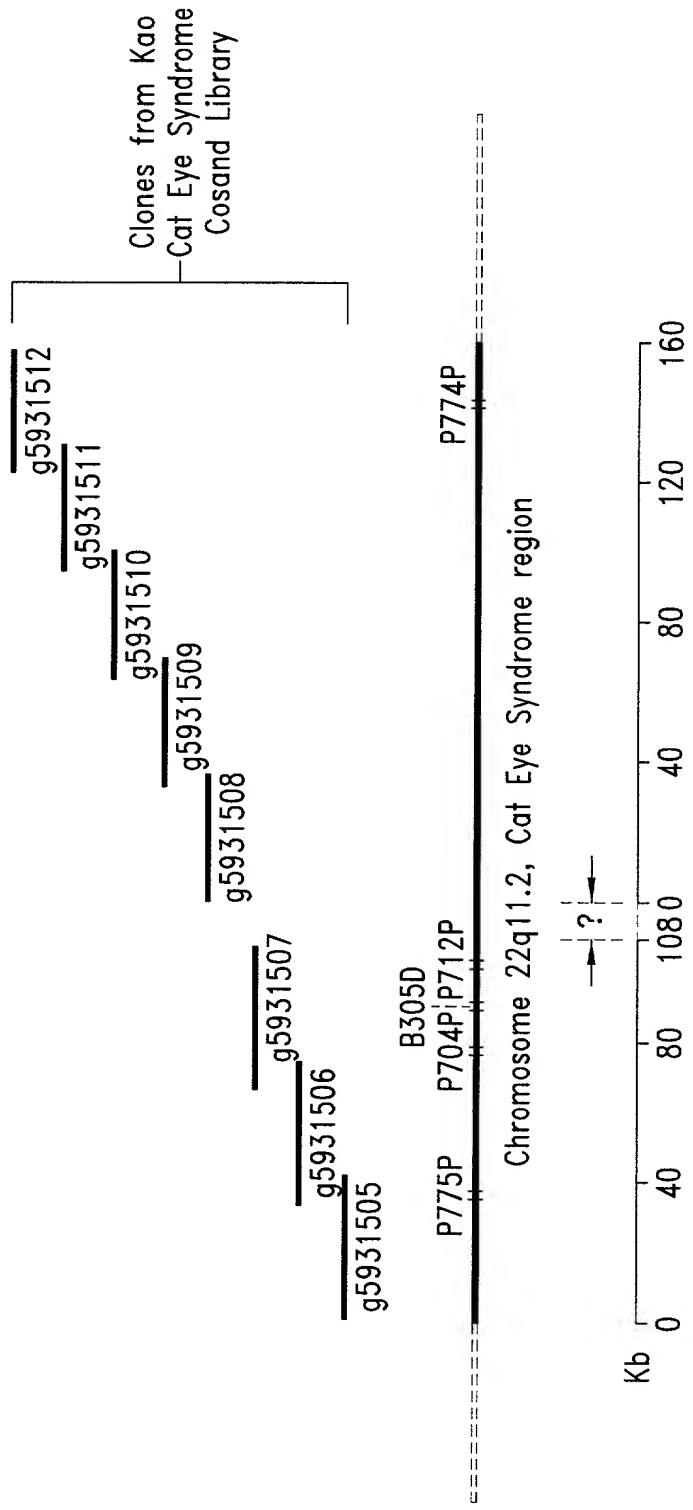


Fig. 10

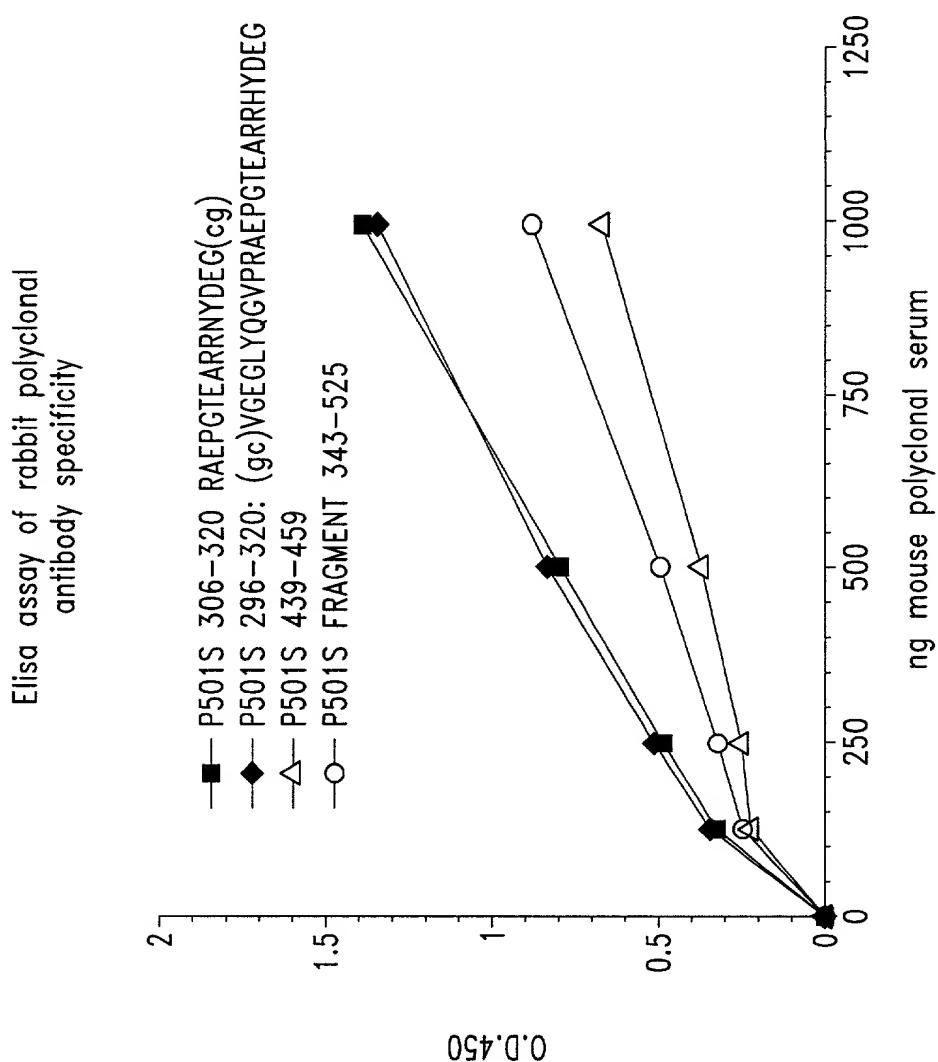


Fig. 11

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 TACAGTGAAA GCGACTTGGT GAATTTATT CAAGCAAATT TTAAGAAACG AGAATGTGTC 180
 TTCTTTACCA AAGATTCCAA GGCCACGGAG AATGTGTGCA AGTGTGGCTA TGCCCAGAGC 240
 CAGCACATGG AAGGCACCCA GATCAACCAA AGTGAGAAAT GGAACATCAA GAAACACACC 300
 AAGGAATTTC CTACCGACGC CTTTGGGAT ATTCAAGTTG AGACACTGGG GAAGAAAGGG 360
 AAGTATATAC GTCTGTCTG CGACACGGAC GCGGAAATCC TTTACGAGCT GCTGACCCAG 420
 CACTGGCACC TGAAAACACC CAACCTGGTC ATTCTGTGA CCGGGGGCGC CAAGAACTTC 480
 GCCCTGAAGC CGCGCATGCG CAAGATCTTC AGCCGGCTCA TCTACATCGC GCAGTCCAAA 540
 GGTGCTTGGA TTCTCACGGG AGGCACCCAT TATGGCCTGA CGAAGTACAT CGGGGAGGTG 600
 GTGAGAGATA ACACCATCAG CAGGAGTTCA GAGGAGAATA TTGTGCCAT TGGCATAGCA 660
 GCTTGGGCA TGGTCTCCAA CCGGGACACC CTCATCAGGA ATTGCGATGC TGAGGGCTAT 720
 TTTTAGCCC AGTACCTTAT GGATGACTTC ACAAGGGATC CACTGTATAT CCTGGACAAC 780
 AACCACACAC ATTTGCTGCT CGTGGACAAT GGCTGTATG GACATCCCAC TGCGAAGCA 840
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Fig. 12A (2)

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Fig. 12A (3)

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Fig. 12B